

Orthophosphate by SEAL AQ2 Discrete Analyzer SEAL Method EPA-118-A Rev. 3					Page 1 of 2
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	Method Supplement 1, Rev. 2 (MS) 3.2.1				
2. Is linearity reestablished if any verification data exceeds initial calibration values by $\pm 10\%$?	MS 3.2.1				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? <i>NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.</i>	MS 3.4.3, 3.4.3.4, 3.4.3.5				
4. Is at least one method blank carried through all the procedural steps with each batch?	MS 3.4.1.1				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	MS 4.5				
6. Is a minimum of 10% of all samples spiked with the stock standard?	MS 3.3.1				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	MS 3.3.1.1.1				
8. For wastewater, are samples filtered (using 0.45 micron filter) within 15 minutes of collection, cooled to $\leq 6^{\circ}\text{C}$, and analyzed within 48 hours? (No acid is used.)	8.3, 40CFR136.3 Table 1I				
Notes/Comments:					

Orthophosphate by SEAL AQ2 Discrete Analyzer
SEAL Method EPA-118-A Rev. 3

Page 2 of 2

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
9. For drinking water, are samples NOT filtered, but cooled to 4°C and analyzed within 48 hours? (No acid is used.)	8.5, 40CFR141.40(a)(5)(i)				
10. Are the AQ2 test parameters set to the method specified values? These include 400 µL sample volume, 480 second reaction time, 880 nm wavelength, 130 µL molybdate, and 20 µL ascorbic acid.	17.1				
11. After analysis is completed, is the cuvette washed with alkaline EDTA solution to remove reagent deposits?	11.2				
12. Is ammonia-free ASTM Type II water or better used for all solutions?	7.1				

Notes/Comments: